



Innotech Performance

Exhaust

Vehicle exhaust system  
technology

# Product Installation Manual

Applicable model:  
Porsche 991 GT3

Version 1

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[WWW.IPE-f1.com](http://WWW.IPE-f1.com)

## Preface

This document explains installation procedures that relates setting and operation methods for the exhaust sold by IPE. There are 2 processes and the working content and time of each process as below chart 1-1. The estimated time is based on team work by an experienced technician and an assistant.

	<b>Working Content</b>	<b>Estimated time</b>
1	Demount Stock Exhaust System	2hrs
2	Install iPE Exhaust System	2hrs
Total		4hrs

Chart 1-1

## Preface

This document explains installation procedures that relates setting and operation methods for the exhaust sold by IPE.

## Important Notice

IPE developed this exhaust according to the improvement of stock . Therefore, there will be no effect of the car from the original manufacturer after installation. There is an inductive power supply function between the car key and the car for many vehicle models. Therefore, the car key should be kept away from the car with a distance of at least five meters to maintain safe conditions.

The exhaust of a car right after driven is still in a high temperature. Thus, please wear heat insulating gloves to replace the exhaust, or perform the replacement after the temperature lowered to avoid burns.

For avoiding the generation of resonance, please don't let the valve open too early when setting the valve to open automatically. The opening of the valve is recommended to be set to 60% of gas pedaling. Please refer to page 21 for the explanation of detail setting.

IPE exhaust is designed according to the stock engine data. In case the engine computer upgraded for increasing horse power, obvious resonance in conjunction with this exhaust could occur. IPE also provide revised exhausts for such vehicles, please contact us for further details.

## Tools required for Operating Procedures



**Inner hexagonal wrench**  
**6mm**



**Star groove wrench, star  
driver**  
**T30**

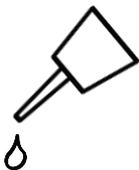


**Outer hexagonal  
wrench**  
**13mm 、 22mm**



**Torque wrench**

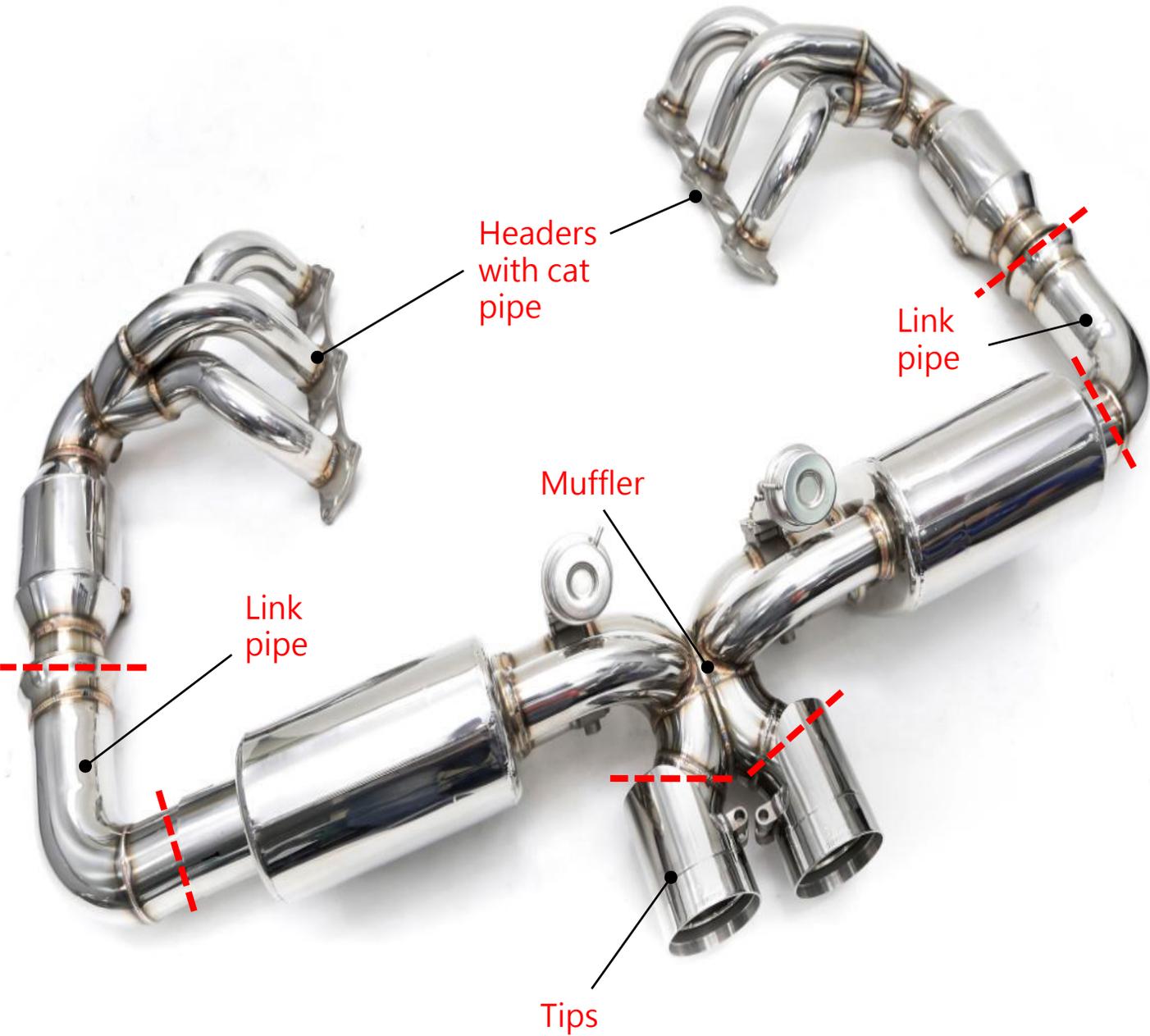
Torque Wrench



**Rust Preventive spray**



## iPE 991 GT3 Assembly of product appearance



## Procedures and related points for Demounting Stock Exhaust

1. Demount engine bottom protect shield by T30 star groove wrench. photo1-1

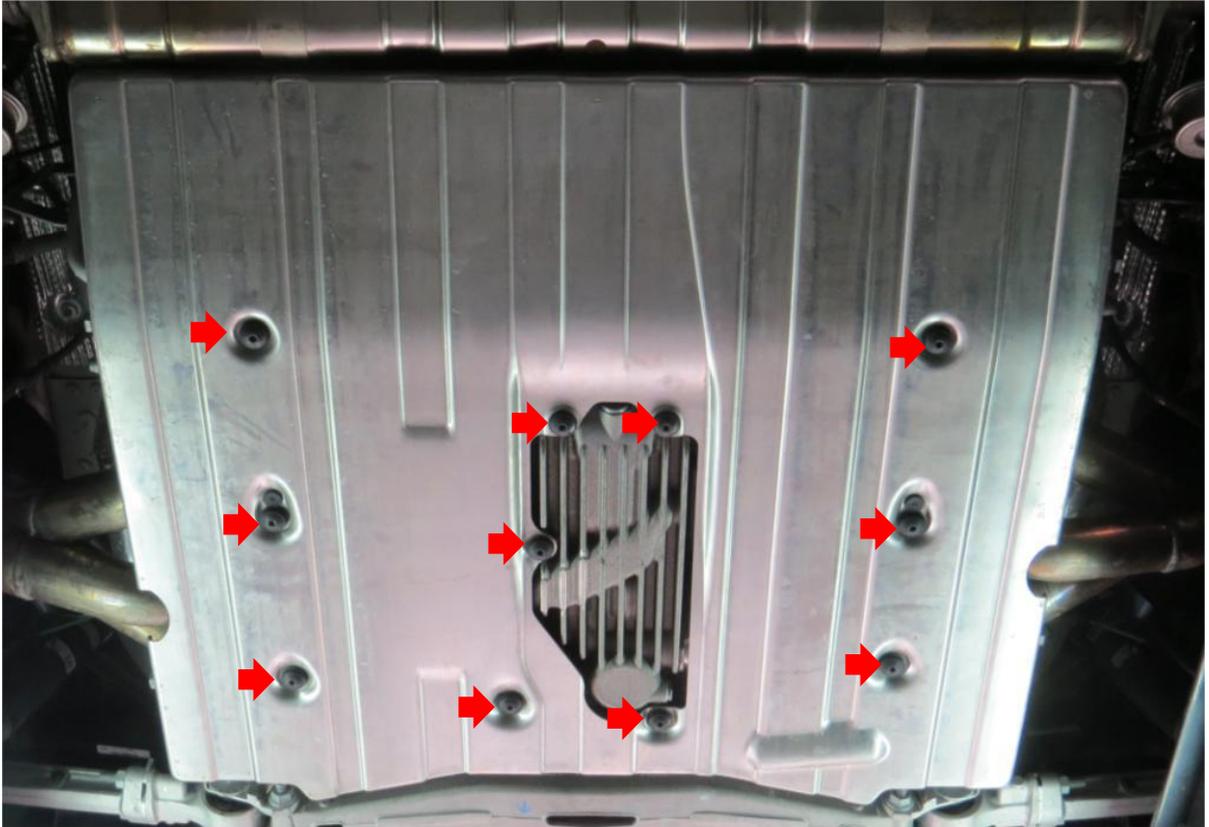


Photo 1-1

2. Demount clamps on both sides of muffler by 13mm wrench. photo1-2

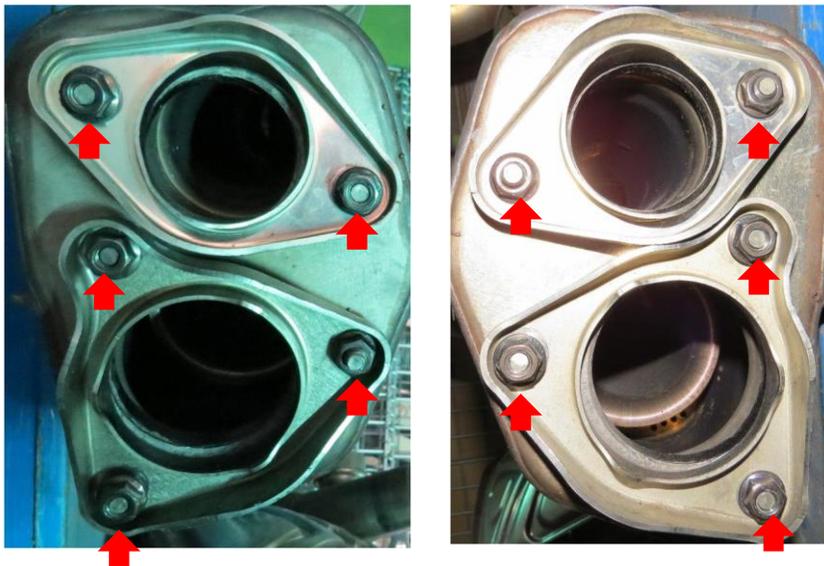


Photo 1-2

3. Loosen clamp of stock muffler by 6mm inner hexagonal wrench, and demount muffler by moving slightly right and left. Photo 1-3



Photo 1-3

4. Demount front & rear O2 sensors by 22mm wrench, and muffler hanger by 13mm wrench. (Arrows in Photo 1-4) Demount stock valve pipe. (Photo 1-4 red circles)

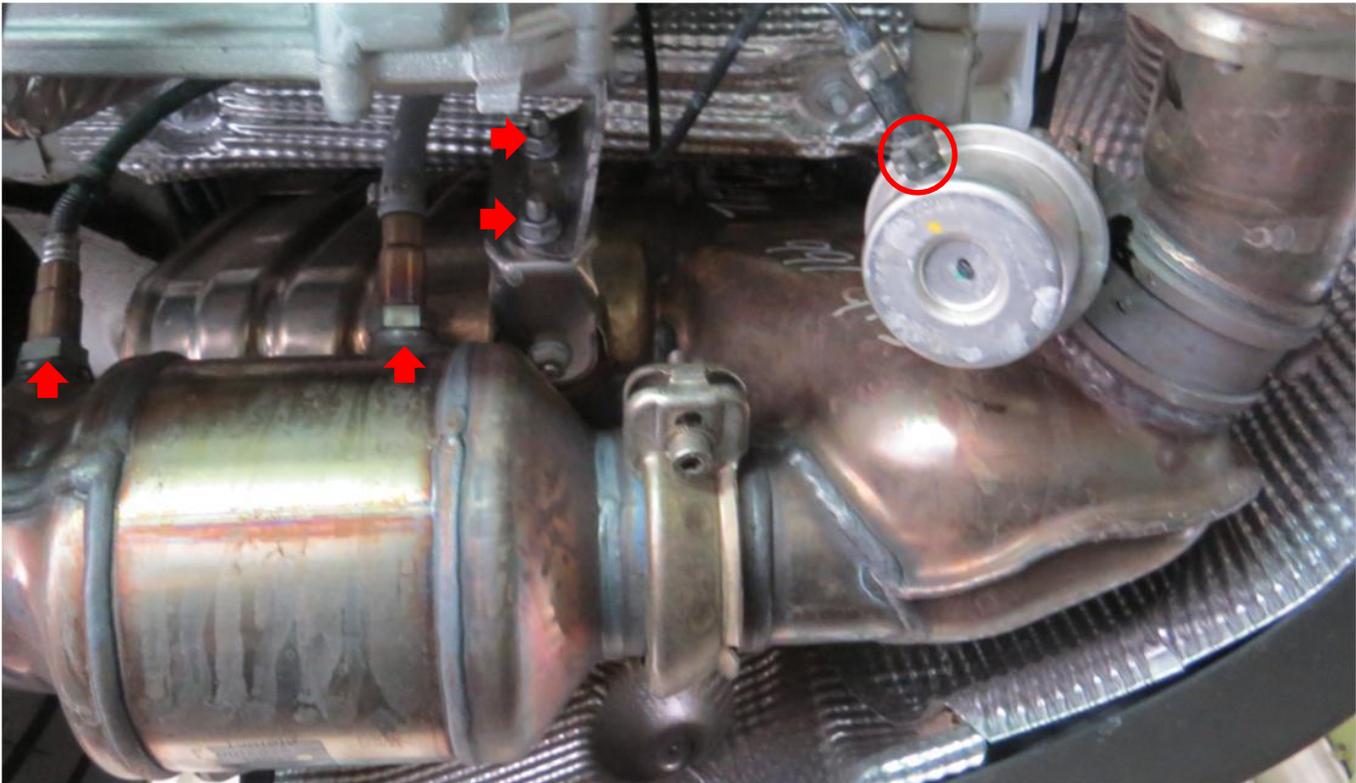


Photo 1-4

5. Demount headers by 13mm wrench. (Photo 1-5) Muffler & headers could be taken out by direction of angel.

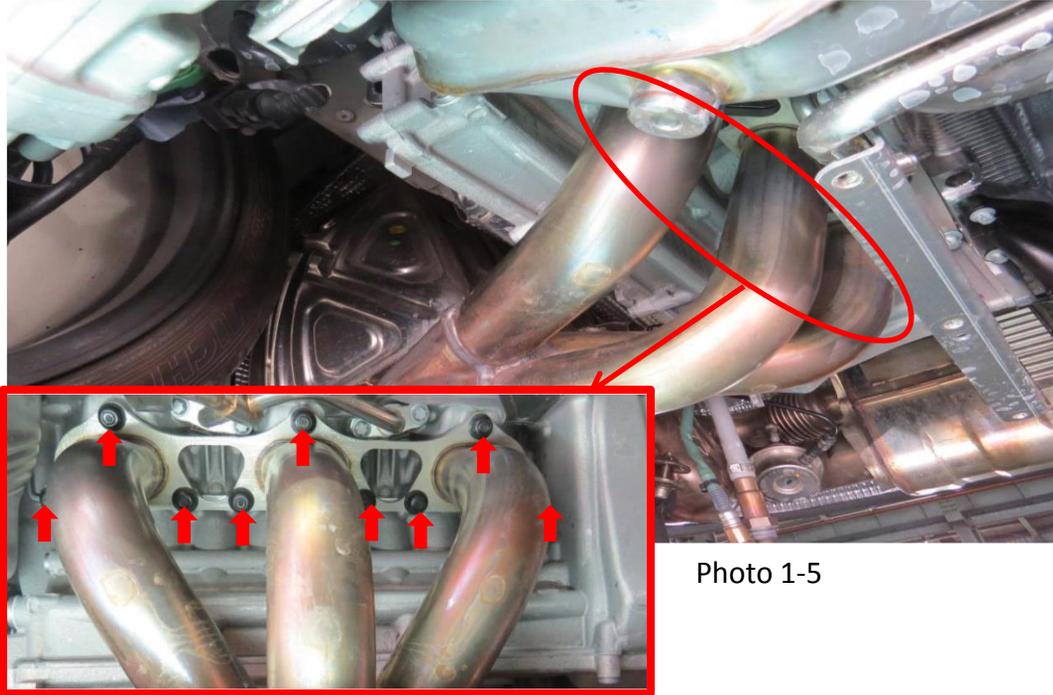


Photo 1-5

6. Demount stock vacuum source by left & right side of three-way branch. (Photo 1-6) And take out the pipe. (Photo 1-7)

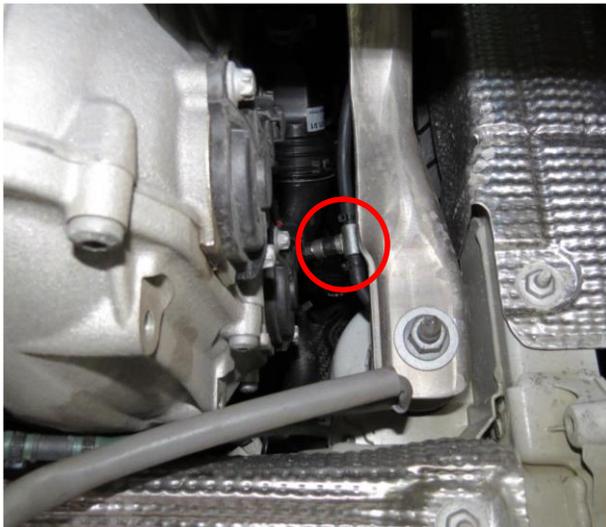


Photo 1-6



Photo 1-7

~Above stock exhaust demounting completed ~

## Procedures and related points of iPE Exhaust installation

1. Mount headers by 13mm wrench to install cat pipe. (Photo 3-1 red circle) Mount front & rear O2 sensors by 22mm wrench. (arrows in photo 3-1)

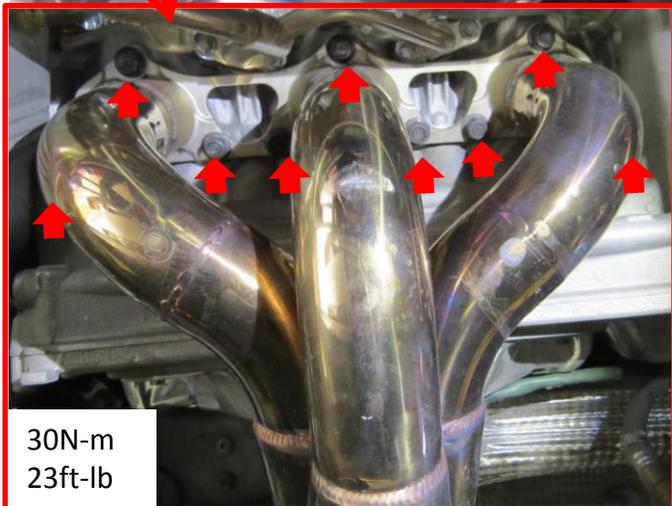
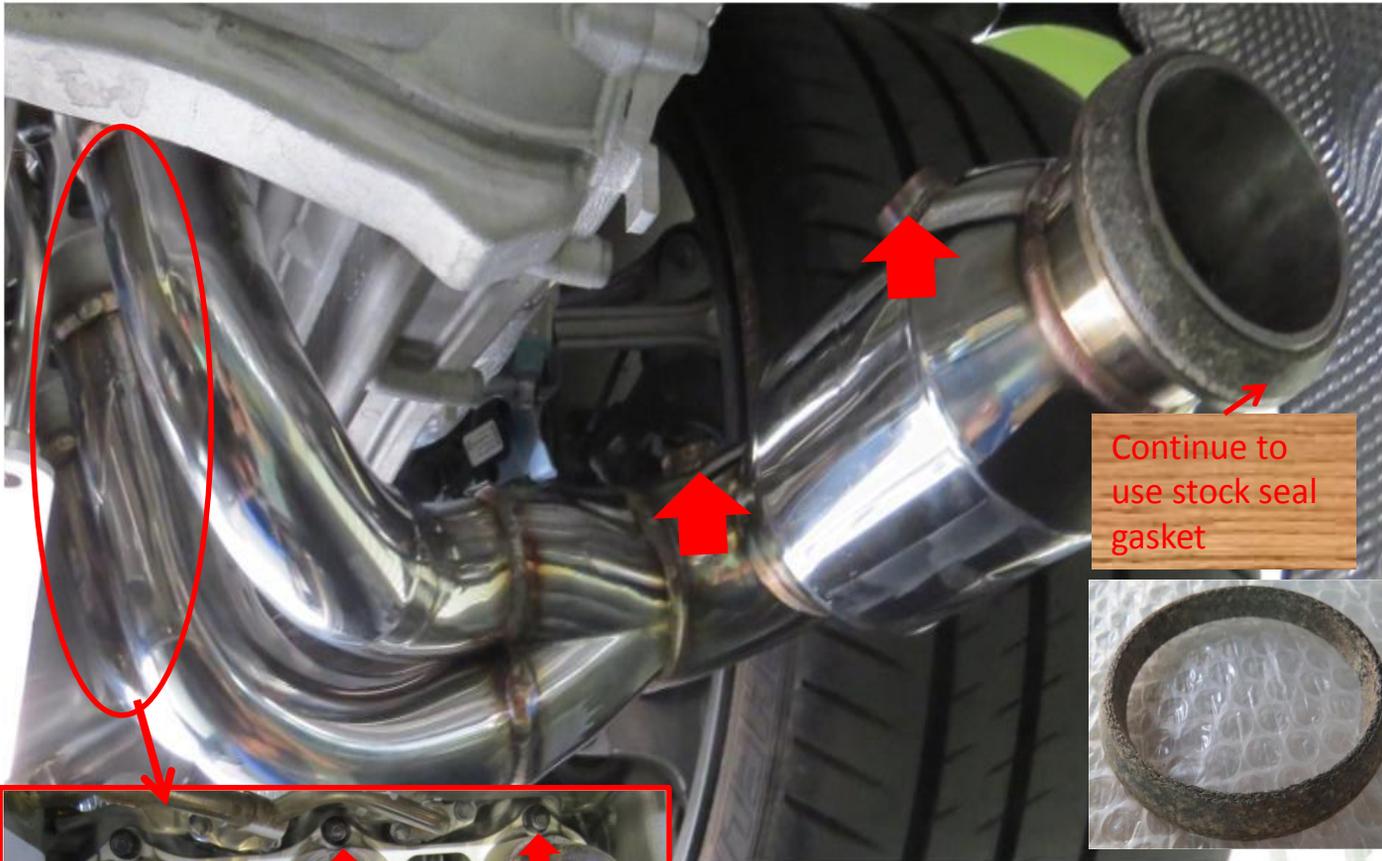


Photo 3-1

2. Assemble muffler & link pipe with 69.3 clamp (photo 3-2 red circles) and mount tips (arrows in photo 3-2), lock tightly after installing muffler.

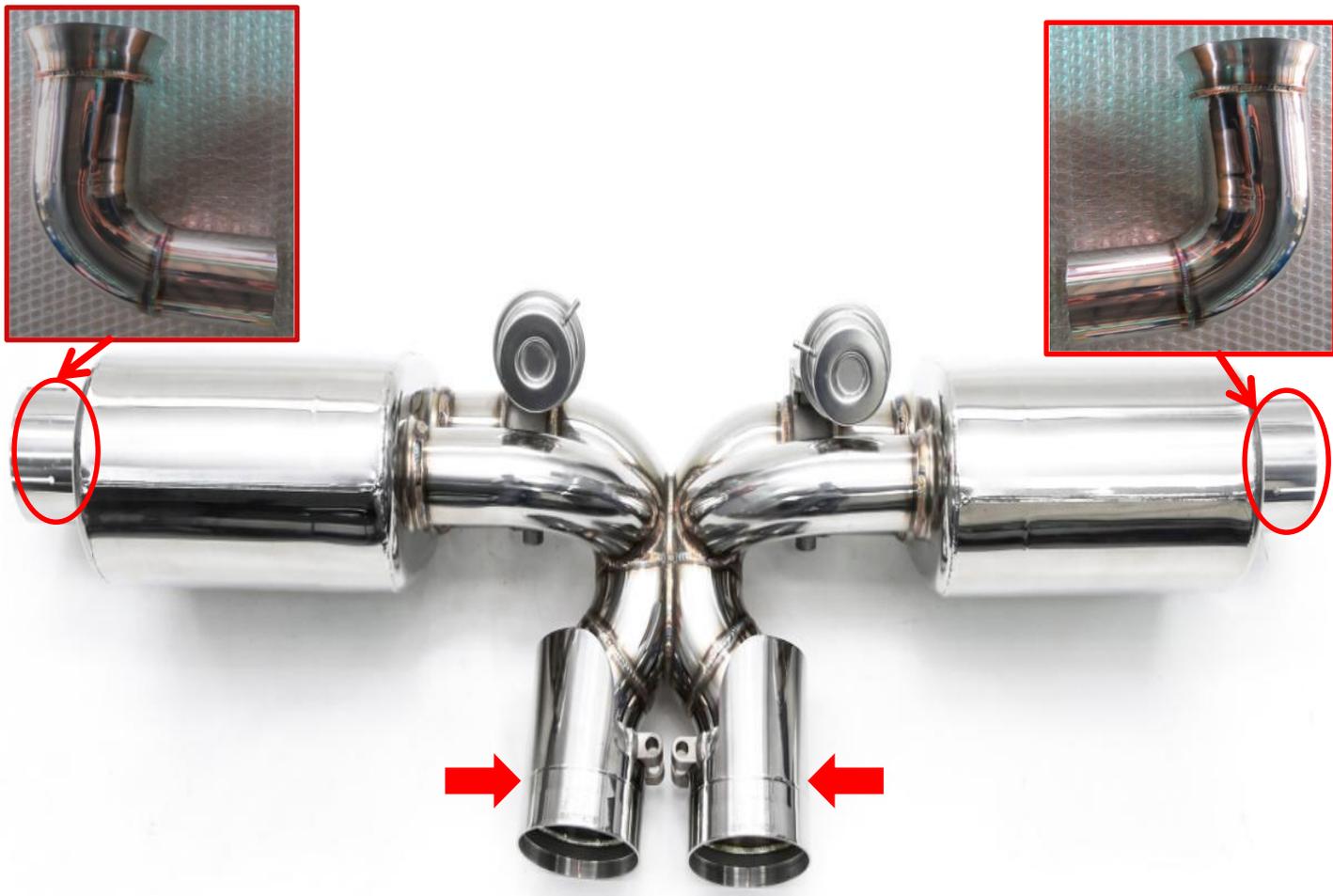


Photo 3-2

3. Install muffler and tighten with metal band (arrows in photo 3-3), connect muffler link pipe to cat pipe and tighten with stock clamps (red circle in photo 3-4). Adjust tips position and lock tightly screws of muffler metal band & cat pipe by 13mm wrench.

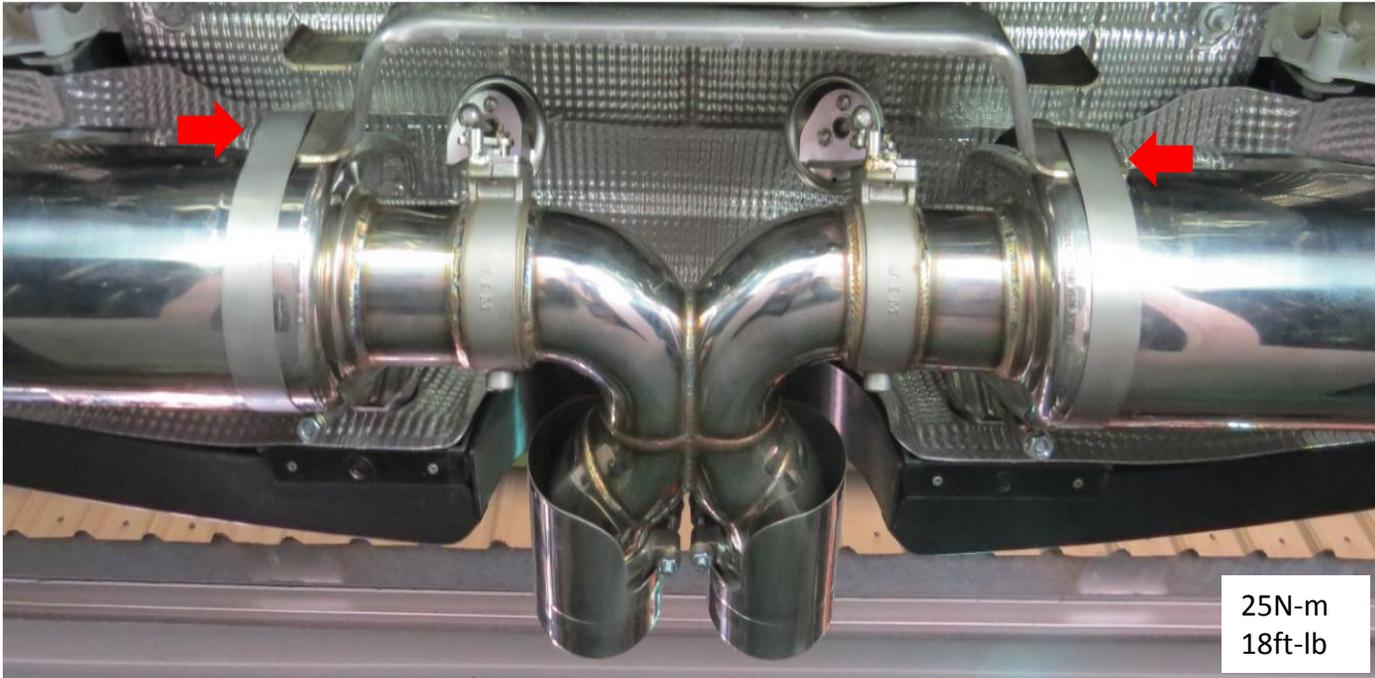


Photo 3-3

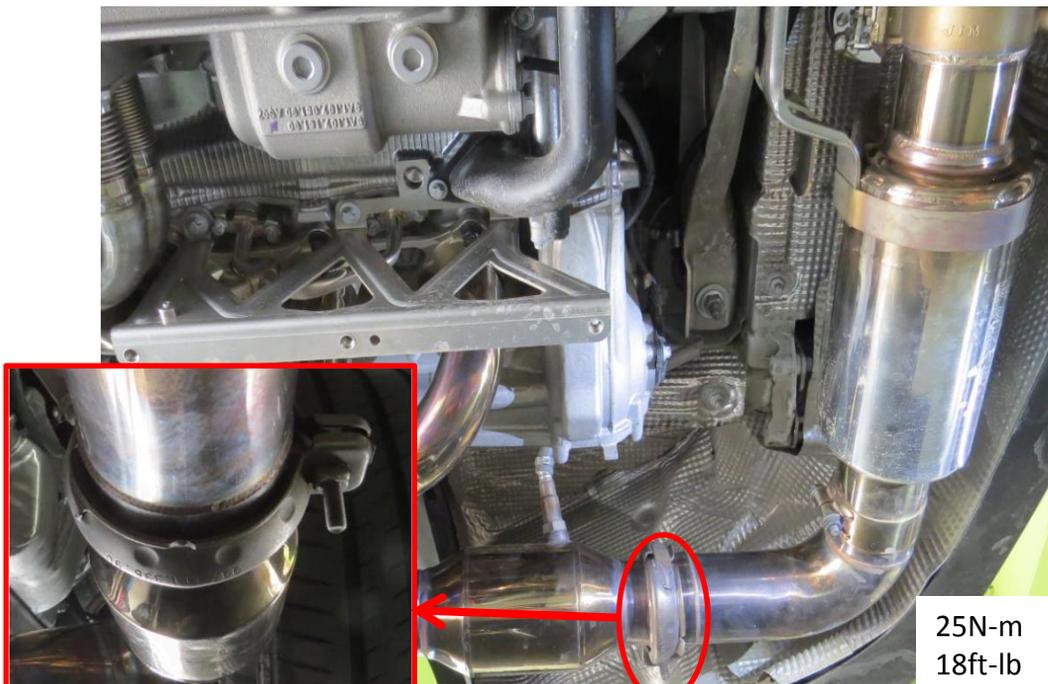


Photo 3-4

4. Connect muffler valve to vacuum source (photo 4-1), and to stock three-way branch of vacuum source. (arrows in photo 4-2)

To avoid valve interfered by air leakage, tighten all connection of vacuum source with band.

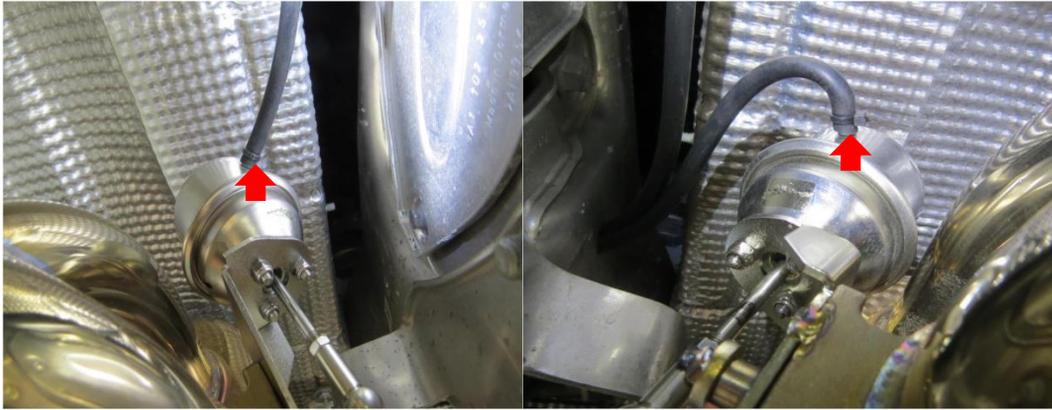


Photo 4-1

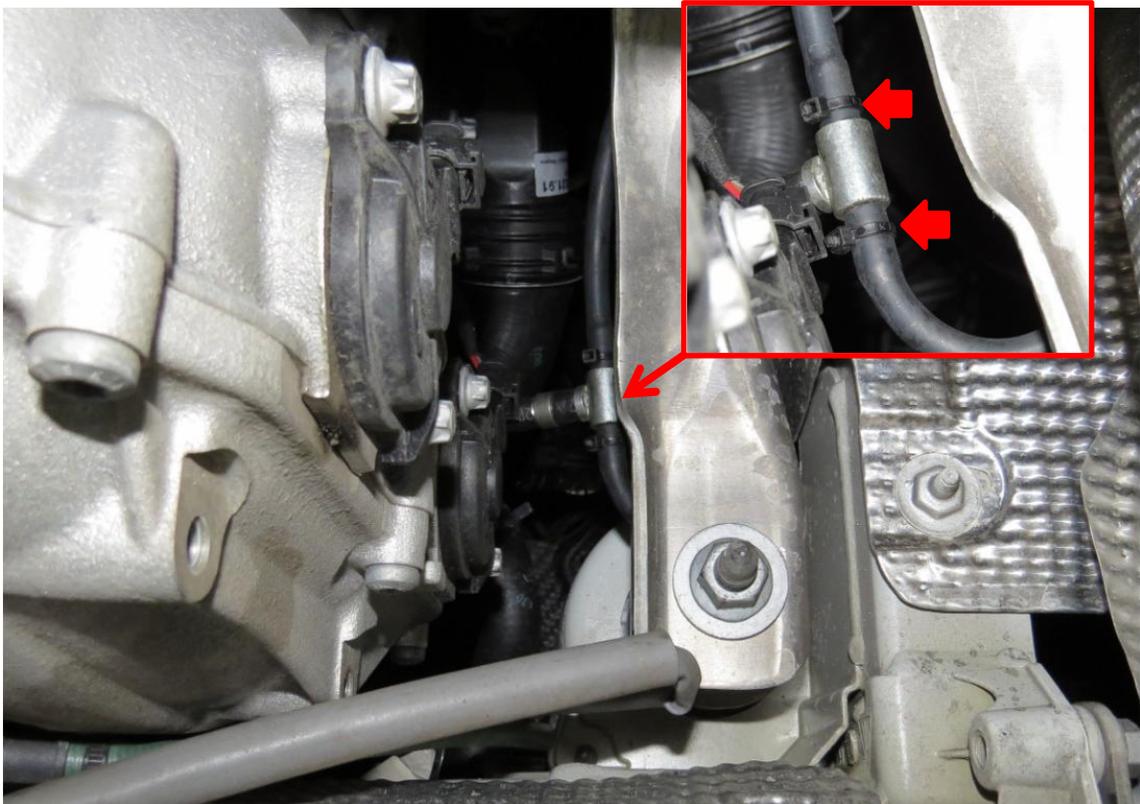


Photo 4-2

5. Mount engine bottom protect shield.

~ Above iPE exhaust installation completed ~